| Index of Claims |  |
|-----------------|--|
|                 |  |

| Application No. | Applicant(s) | · - · · · · |
|-----------------|--------------|-------------|
| 10/614,311      | YOUNG ET AL. |             |
| Examiner        | Art Unit     |             |
| David B. Thomas | 3723         |             |

| ✓ | Rejected | 1 |  |
|---|----------|---|--|
|   | Allowed  | + |  |

| - | (Through numeral)<br>Cancelled |
|---|--------------------------------|
| + | Restricted                     |

| N | Non-Elected  | A | Appeal   |
|---|--------------|---|----------|
| ı | Interference | 0 | Objected |

| Cla      | im       |              |          |              | - 1      | Dat                                    | е  |          |          |          | ]   | Cla      | im       | m Date   |          |          |              |          |          |           | Cl      | aim      | Date      |       |            |          |          |          |              |          |          |          |               |          |
|----------|----------|--------------|----------|--------------|----------|--|--|----------|----------|----------|-----|----------|----------|----------|----------|----------|--------------|----------|----------|-----------|---------|----------|-----------|-------|------------|----------|----------|----------|--------------|----------|----------|----------|---------------|----------|
| Final    | Original | 5/29/04      | 2/11/05  |              |          |  |  |          |          |          |     | Final    | Original |          |          |          |              |          |          |           |         |          |           | Final | Original   |          |          |          |              |          |          |          |               |          |
|          | 1        |              |          |              |          |  | T  | 1        | Т        | T        | 1   |          | 51       | П        | 7        | T        | 1            | 一        | 寸        | 7         | 十       | ┪        |           |       | 101        |          | T        | 十        | 寸            | ヿ        | ヿ        | 寸        | 1             | ヿ        |
|          | 2        |              |          |              | Г        | 1                                      | T  | 1        |          | Г        | 1   |          | 52       |          | $\neg$   | T        | $\neg$       | ╛        | T        | $\exists$ | $\top$  | ╗        |           |       | 102        |          |          | $\neg$   | $\top$       | コ        | ヿ        | コ        | $\neg$        | $\neg$   |
|          | 3        |              |          |              | П        | Π                                      | Π  | П        | T        |          | 1   |          | 53       |          | T        | T        | $\neg$       | ╛        |          | T         | T       | ╗        |           |       | 103        |          | П        |          | T            | $\neg$   | $\neg$   | T        | ヿ             | $\neg$   |
|          | 4        |              |          |              |          |  |  |          |          |          | ]   |          | 54       |          |          | $\Box$   |              | T        |          |           |         |          |           |       | 104        |          |          |          | $\Box$       | $\Box$   | $\Box$   |          | $\Box$        |          |
|          | 5        |              |          |              |          |  |  |          |          |          | ]   |          | 55       |          |          |          |              |          |          |           |         |          |           |       | 105        |          |          |          |              |          | $\Box$   | $\Box$   |               |          |
|          | 6        |              |          |              |          | Γ                                      |  |          |          |          | ]   |          | 56       |          |          |          |              |          |          |           |         |          |           |       | 106        |          |          | $\Box$   | $\Box$       | $\Box$   | $\Box$   | $\Box$   | $\Box$        |          |
|          | 7        |              |          |              |          |  |  | L        |          |          | ]   |          | 57       |          |          |          | $\perp$      |          |          |           |         |          |           |       | 107        |          |          | $\perp$  | $\perp$      | $\perp$  | $\perp$  | $\perp$  | $\perp$       |          |
|          | 8        | <u> </u>     |          |              |          | $oxed{oxed}$                           |  | L        |          | <u> </u> |     |          | 58       |          | _        | _        | _            | _        | _        |           | $\perp$ |          | - 1       |       | 108        |          | _        | _        | _            | _        | _        | _        | i             | _        |
|          | 9        | _            |          |              | <u> </u> | ļ                                      |  |          | <u> </u> | _        | 1   |          | 59       |          | _        | _        | 4            | _        | 4        | 4         | 4       |          |           |       | 109        | _        | $\perp$  | $\dashv$ | 4            | 4        | _        | 4        | _             | _        |
|          | 10       | _            |          |              | L        | ــــــــــــــــــــــــــــــــــــــ |  | <u> </u> | ┖        | ╙        |     | <u> </u> | 60       | $\sqcup$ | 4        | 4        | $\dashv$     |          | 4        |           | _       | _        |           |       | 110        | _        |          | 4        | _            | 4        | $\dashv$ | 4        | $\rightarrow$ |          |
|          | 11       | _            | Щ        | _            | L_       | -                                      | _  | ــــ     | <u> </u> | ــــ     |     |          | 61       |          | _        | 4        | _            | _        | $\perp$  | 4         | _ _     | 4        | 7.        |       | 111        | _        | $\perp$  | $\bot$   | 4            | _        | _        | _        | 4             |          |
|          | 12       | _            | Щ        | $oxed{oxed}$ |          | ┡                                      | <u> </u>   |          | $\vdash$ |          | 1.4 |          | 62       | $\sqcup$ | _        | _        | $\downarrow$ | _        | $\dashv$ | 4         | _       | ᅬ        |           |       | 112        | _        | 4        | $\bot$   | $\dashv$     | $\dashv$ | 4        | $\dashv$ | $\dashv$      | _        |
|          | 13       | <u> </u>     | Ш        | Ш            | <u> </u> | ┞                                      | ┡  | ļ        | <u> </u> | <u> </u> |     | L        | 63       | $\perp$  | -        | 4        | $\dashv$     | 4        | _        | 4         | 4       | 4        |           |       | 113        | -        | $\dashv$ | +        | $\dashv$     | $\dashv$ |          | 4        | 4             | _        |
|          | 14       | <u> </u>     |          | _            | -        | ┡                                      | ┡  | 1        | -        | ⊢        |     | ļ        | 64       |          | -        | $\dashv$ | -            | _        | +        | +         | +       | 4        | \$31<br>3 |       | 114        | -        | +        | +        | +            | $\dashv$ | _        | 4        | -             | 4        |
|          | 15       | _            | Ш        |              | _        | ┡                                      | ├  | ├-       | ļ.       | L        |     | $\vdash$ | 65       | $\dashv$ | -        | $\dashv$ | $\dashv$     | _        | +        | +         | +       | _        |           |       | 115        | $\dashv$ |          | 4        | 4            | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$      | 4        |
|          | 16       | _            |          |              | <u> </u> | -                                      | <u> </u>   | ├-       | <u> </u> | <u> </u> | 10  |          | 66       | $\dashv$ | -+       | +        | 4            | -        | -        |           | -       | 4        |           |       | 116        | +        | +        | +        | +            | -        | -        | 4        | $\dashv$      |          |
|          | 17       |              |          |              |          | ┢                                      | ┝  | ⊬        | ┢        | H        | ١.  | $\vdash$ | 67       | -        | $\dashv$ | +        | +            | +        | $\dashv$ | +         | +       | $\dashv$ |           |       | 117        | +        | +        | +        | +            | +        | $\dashv$ | $\dashv$ | $\dashv$      | $\dashv$ |
|          | 18       | <del> </del> | $\vdash$ | Н            | —        | ⊢                                      | ├  | ├        | ⊢        | ⊢        | 1   | _        | 68       |          | +        | $\dashv$ | +            | $\dashv$ | $\dashv$ | +         | +       | ┥        |           |       | 118        | +        | +        | +        | +            | -        | $\dashv$ | $\dashv$ | $\dashv$      | $\dashv$ |
|          | 19<br>20 |              |          | -            |          |  |  |          | ╁        | ├        | ┨   |          | 69<br>70 | -        | +        | $\dashv$ | +            | $\dashv$ | $\dashv$ | +         | +       | ┦        |           |       | 119<br>120 | +        |          | +        | +            | -+       | $\dashv$ | $\dashv$ | +             | $\dashv$ |
|          | 21       | $\vdash$     | -        | -            | _        | ┢                                      | ├-   | ├        | ┝        | $\vdash$ | ┨   | —        | 71       | $\dashv$ | $\dashv$ | +        | $\dashv$     | $\dashv$ | +        | +         | +       | ᅥ        |           |       | 121        | -+       | ╅        | +        | +            | $\dashv$ | $\dashv$ | +        | $\dashv$      | $\dashv$ |
| 1        | 22       | 1            | Ŧ        |              |          | ╁                                      | ⊢  |          | -        |          | ┨   |          | 72       | -        | -+       | +        | $\dashv$     | $\dashv$ | ╅        | ╁         | +       | $\dashv$ | 1.        |       | 122        | $\dashv$ | +        | +        | +            | $\dashv$ | $\dashv$ | +        | $\dashv$      | $\dashv$ |
| 2        | 23       | H            | H        |              |          | -                                      | ┢  | $\vdash$ | -        | -        | 1   |          | 73       | -        | +        | $\dashv$ | ┪            | $\dashv$ | ╅        | +         | ╁       | ┪        |           |       | 123        | +        | ╅        | +        | +            | $\dashv$ | $\dashv$ | +        | +             | $\dashv$ |
| 3        | 24       | H            | Н        |              |          | $\vdash$                               | $\vdash$   | ╁        | $\vdash$ | $\vdash$ |     |          | 74       | $\dashv$ | ╅        | +        | ╅            | $\dashv$ | 十        | 十         | +       | ┪        |           |       | 124        | $\dashv$ | +        | +        | $\pm$        | +        | $\dashv$ | $\dashv$ | $\dashv$      | $\dashv$ |
| 4        | 25       | $\vdash$     | $\pm 1$  |              |          | $\vdash$                               | $\vdash$   | ╁        | ┢        | $\vdash$ | 1   |          | 75       | $\neg$   | 十        | $\dashv$ | ┪            | $\dashv$ | 十        | 十         | +       | ┪        | ***       |       | 125        | $\dashv$ | $\top$   | +        | $\top$       | $\dashv$ | $\dashv$ | 十        | 十             | $\dashv$ |
| 5        | 26       | H            | H        |              |          |  | l  |          | t        |          | 1   |          | 76       |          | 1        | 1        | 1            | $\dashv$ | 1        | $\top$    | $\top$  | ┪        | ÷.        |       | 126        | $\dashv$ | +        | +        | 十            | 十        | $\dashv$ | 十        | $\dashv$      | ヿ        |
| 6        | 27       | $\vdash$     | Н        |              |          | $\vdash$                               | Г  |          | T        |          | 1   |          | 77       |          | $\dashv$ | 十        | ╅            | 十        | $\top$   | $\top$    | T       | 7        |           |       | 127        | 十        | $\dashv$ | $\top$   | 十            | $\top$   | 寸        | 十        | ナ             | $\neg$   |
| 7        | 28       |              | 71       |              |          | 1                                      | <del>                                     </del> | T        |          | _        | 1   |          | 78       | $\neg$   | 1        | $\top$   | $\dashv$     | 寸        | T        | Ť         | T       | ヿ        |           |       | 128        | $\dashv$ | $\top$   | 十        | ナ            | 1        | 寸        | 十        | $\neg$        | $\neg$   |
| 8        | 29       | П            | 11       |              |          | <b>†</b>                               |  |          | Ħ        |          | 1   |          | 79       |          | T        | 7        | ┪            | 寸        | T        | T         | T       | ٦.       |           |       | 129        |          | 7        | 十        | ナ            | ヿ        | ヿ        | 寸        | ヿ             |          |
| 9        | 30       | П            | 11       |              |          | İ                                      |  |          |          |          | 1   |          | 80       |          |          | $\neg$   | $\top$       |          |          | T         | 1       | ╗        | 1         |       | 130        | T        | T        | 十        | ヿ            | ヿ        | $\dashv$ | ヿ        | ヿ             | $\neg$   |
| 10       | 31       | П            | П        |              |          |  |  |          | Г        |          | 1   |          | 81       |          | T        | 丁        | T            | T        | T        | T         | T       | ٦        |           |       | 131        |          | T        | T        | T            | $\neg$   | $\neg$   | 丁        | $\neg$        |          |
| 11       | 32       |              | П        |              |          |  |  |          |          |          | ]   |          | 82       |          |          | Т        | П            |          |          |           |         |          |           |       | 132        |          | $\top$   |          | T            | $\top$   | $\Box$   | Т        |               |          |
| 12       | 33       |              |          |              |          |  |  |          |          |          |     |          | 83       |          |          |          |              |          |          |           |         | _        | [         |       | 133        |          |          |          |              |          |          |          |               |          |
| 13       | 34_      | Ш            | Ш        |              |          | <u> </u>                               |  |          |          |          |     |          | 84       |          |          |          |              |          |          | $\perp$   |         | _        |           |       | 134        |          |          | $\perp$  | $\perp$      |          |          |          |               |          |
| 14       | 35       | Ш            | Ш        |              |          | L                                      | _  |          | L        | <u> </u> | ]   |          | 85       |          | _        |          | _            |          | _        | _         | 丄       | _        |           |       | 135        | $\perp$  | $\perp$  | 丄        | _            | _        |          |          | $\perp$       |          |
| 15       | 36       | Щ            | Ш        |              |          |  |  | _        |          |          |     |          | 86       | _        | $\dashv$ | _        | 4            | 4        |          | ┵         | ┸       | _        |           |       | 136        | _        | 4        | 丄        | 4            | _        | _        | _        | _             |          |
| 16       | 37       | Ш            | Щ        | _            |          | oxdot                                  | Ш  | _        |          |          |     |          | 87       | $\perp$  | $\perp$  | $\perp$  | 4            | _        | _        | $\perp$   | 4       | ┙        |           |       | 137        |          | _        | $\perp$  | 4            | 4        | _        | 4        | _             | _        |
| 17       | 38       | ₹            | 븨        |              |          | <b> </b>                               | <u> </u>   | <u> </u> | $\vdash$ | <u> </u> |     |          | 88       | _        | 4        | $\bot$   | 4            | _        | $\bot$   | 4         | $\perp$ | 4        |           |       | 138        | _        | $\perp$  | $\perp$  | 4            | 4        | 4        | $\dashv$ | $\dashv$      | _        |
|          | 39       | Ш            | _        |              |          | <u> </u>                               | <u> </u>   | <b>—</b> | <u> </u> | L        |     |          | 89       | _        | $\dashv$ | $\perp$  | 4            | 4        | 4        | _         | 4       | 4        |           |       | 139        | $\dashv$ | 4        | 4        | $\downarrow$ | 4        | 4        | $\dashv$ | $\dashv$      |          |
|          | 40       | Ш            |          | _            |          | <u> </u>                               | <u> </u>   | <u> </u> | <u> </u> |          |     |          | 90       | $\perp$  | $\perp$  | $\perp$  | 4            | $\dashv$ | $\perp$  | 4         | 4       | 4        | ٠,        |       | 140        | $\dashv$ | 4        | 4        | 4            | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$      | _        |
|          | 41       | Ш            | _        |              | _        |  | _  | ├        | <u> </u> | _        |     |          | 91       |          | _        | -        | 4            | -        | 4        | _         | $\bot$  | 4        |           |       | 141        |          | $\bot$   | +        | 4            | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$      | $\dashv$ |
|          | 42       | Щ            | _        | _            | _        | H                                      | $\vdash$   | $\vdash$ | _        | _        |     |          | 92       | $\dashv$ | +        | +        | +            | +        | +        | +         | +       | 4        |           |       | 142        | $\dashv$ | +        | +        | +            | 4        | $\dashv$ | _        | 4             | _        |
|          | 43       | $\Box$       |          | _            |          | <u> </u>                               | <u> </u>   | <u> </u> | <b> </b> | _        |     |          | 93       | +        | +        | +        | +            | $\dashv$ | +        | +         | +       | 4        |           |       | 143        | $\dashv$ | +        | +        | 4            | +        | -        | +        | $\dashv$      | $\dashv$ |
|          | 44       |              |          |              |          | -                                      | <u> </u>   | -        | -        |          |     |          | 94       | +        | +        | +        | +            | $\dashv$ | +        | +         | +       | - 1      |           |       | 144        | +        | +        | +        | +            | +        | +        | +        | +             | _        |
| $\dashv$ | 45       |              | $\dashv$ |              | _        |  | <u> </u>   | <u> </u> | Н        |          |     | $\dashv$ | 95       | +        | +        | +        | +            | +        | +        | +         | +       | 4        | ·         |       | 145        | -        | +        | +        | +            | +        | +        | +        | +             | $\dashv$ |
|          | 46<br>47 | -            | $\dashv$ |              | 괵        | Н                                      | <u> </u>   | <u> </u> | $\vdash$ |          |     |          | 96       | +        | +        | +        | +            | +        | +        | +         | +       | 4,       | 1         |       | 146        | +        | +        | +        | +            | +        | $\dashv$ | +        | +             | 4        |
|          | 47       | $\dashv$     | $\dashv$ | $\dashv$     | -        | Н                                      | -  | -        | Н        |          |     |          | 97<br>98 | -+       | +        | +        | +            | +        | +        | +         | +       | $\dashv$ | }         |       | 147        | +        | +        | +        | +            | +        | +        |          | +             | $\dashv$ |
|          | 49       |              |          | $\dashv$     | $\dashv$ | $\vdash\vdash$                         | -  | -        | $\vdash$ |          |     |          | 98       | +        | +        |          | +            | +        | +        |           | +       | 4        | }         |       | 148<br>149 | $\dashv$ | +        | +        | +            | +        | +        | +        | +             | $\dashv$ |
| $\dashv$ | 50       | $\dashv$     | $\dashv$ | $\dashv$     | $\dashv$ | $\vdash$                               | -  | -        | $\vdash$ |          | -   |          | 100      | +        | +        | +        | +            | +        | +        | +         | +       | $\dashv$ |           |       | 150        | +        | +        | +        | +            | +        | +        | +        | +             | $\dashv$ |
| l        | 30       | -            |          |              |          | لــــا                                 | Щ  | Щ.       | Ш        |          | l · | i        | 100      |          |          |          | ᆚ            | L        |          | ᆚ         |         | _}       | , /L      |       | 100        |          | L        | ㅗ        | 丄            | 丄        | 丄        |          | ᆚ             |          |